Z CALC 2.3 Quick Guide

Toric & non-toric IOL calculation and ordering with Z CALC®

ZEISS

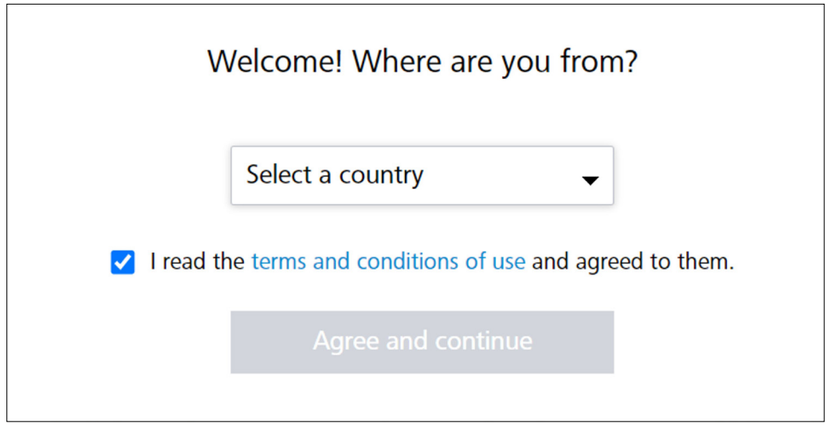
Seeing beyond

Z CALC:
Z CALC® from ZEISS is a software intended to support a user in selecting ZEISS IOLs by calculation of intraocular lens power and predicted residual refraction. Z CALC can also be used for IOL power calculations for patients with previous LASIK, LASEK and PRK treatments.

The new Z CALC is compatible with the following browsers:
Apple Safari mobile for iOS (Version 15 or higher)
Apple Safari Version for MacOS (Version 15 or higher)
Google Chrome for Windows 10 (Version 102 or higher)
Google Chrome mobile for Android (Version 102 or higher)
Microsoft Edge for Windows 10 (Version 102 or higher)

Preconditions for use:
Please ensure that your pop-up blocker is deactivated.
For detailed instructions on how to deactivate the pop-up blockers, please review Pop-Up Blockers and how to deactivate. Before using the product, please consult the instructions for use.

1. Region Selection / Terms & Condition / Data Protection



- Select region.
- Please read “Terms and Conditions of Use”. Click the checkbox.
- Click “Agree and continue”.
- Additionally you can find the “Data protection guidelines”.

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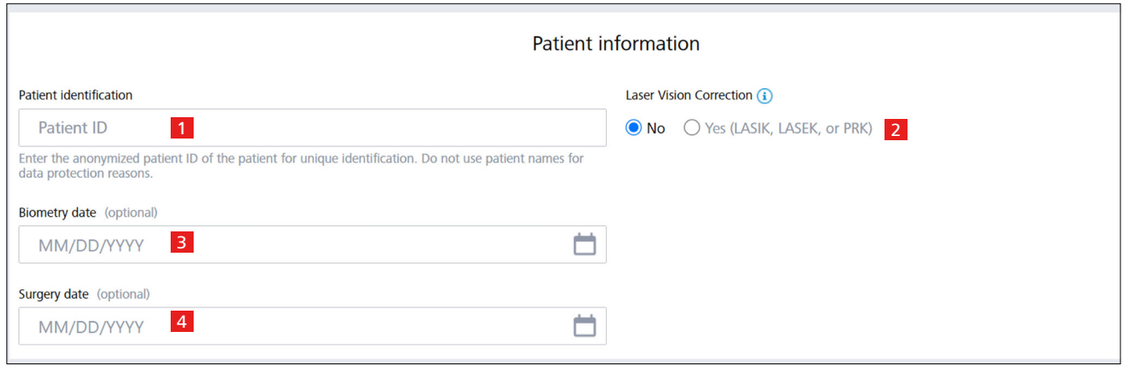
2. Patient Information



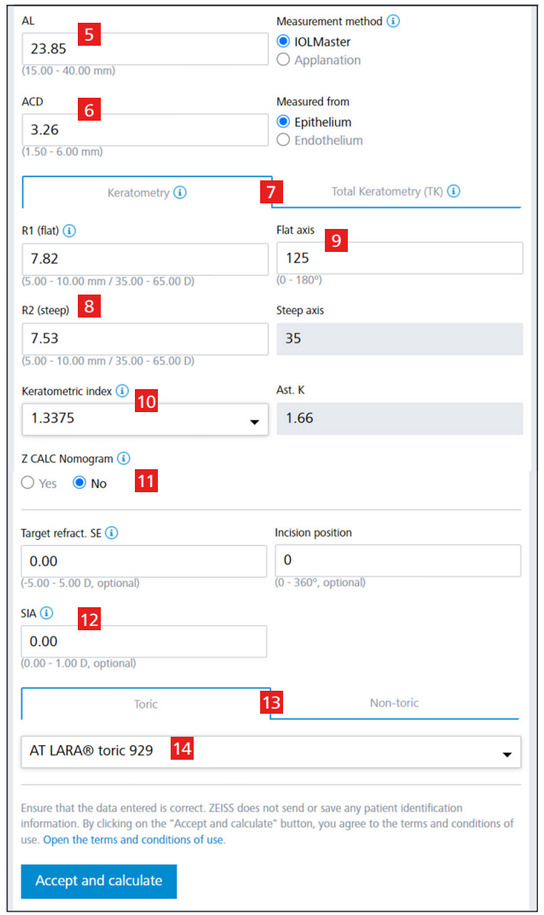
1 Enter patient ID (Please do not enter the patient’s name!).

2 Select whether or not patient has undergone a previous laser vision correction treatment (LASIK, LASEK or PRK):
- LVC status must be selected for both eyes.
- If yes; be sure to enter whether myopic or hyperopic treatment has occurred.

3 Enter biometry examination date (optional).

4 Enter surgery date (optional).

3. Calculation Screen



5 Enter axial length from the patient's record. Select IOLMaster for measurements with an optical biometry device or immersion ultrasound. Select applanation for measurements with applanation ultrasound.

6 Enter the ACD from the patient's record and indicate if it has been measured from the epithelium or endothelium.

7 Please choose if you want to enter standard (K) Keratometry values or "Total Keratometry (TK)" values, if you want to use the TK values incorporating the posterior corneal curvature measurements from the IOLMaster 700.

8 Enter the K- or TK-readings either in D or radii in mm.

9 Enter "Flat axis".

10 Select the "Keratometric index" from the drop down menu.

11 Select Z CALC Nomogram*, if desired.

12 Insert target refraction, incision position and SIA for personalized calculation (optional).

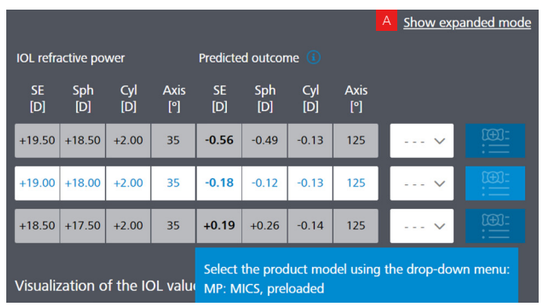
13 Choose between toric or non-toric IOL calculation.

14 Select the desired IOL from the drop-down menu.

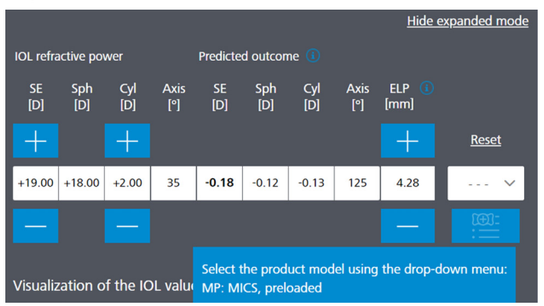
Click "Accept and calculate".

4. Result Screen

Standard Mode



Expanded Mode

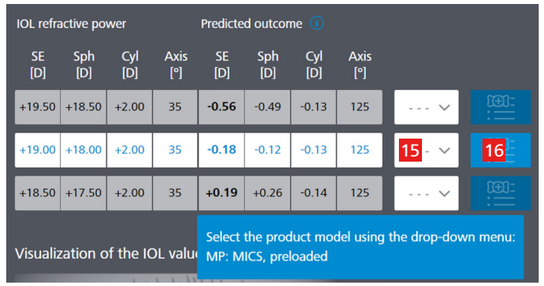


A You may switch between "Standard Mode" or "Expanded Mode" by clicking the desired mode (top right corner).

- Standard Mode: Z CALC presents three calculations from which you may choose the most appropriate based on your requirements.
- Expanded Mode: You may vary Spherical Equivalent (SE) and cylinder powers (toric IOLs only) to review associated residual refraction and Effective Lens position (ELP).

** Mathematical compensation for the posterior corneal astigmatism (first implemented with v2.0).*

5. IOL product model selection



15 Choose between different product models (depending on the availability) from the drop-down menu from the generated readings.

16 Click on the "Add to wish list" button adjacent to the drop-down menu to transfer the result to the wish list.

M **M**ICS (Micro Incision Cataract Surgery), suitable for 1.8mm incision size

MP **M**ICS (Micro Incision Cataract Surgery), suitable for 1.8mm incision size & **P**reloaded

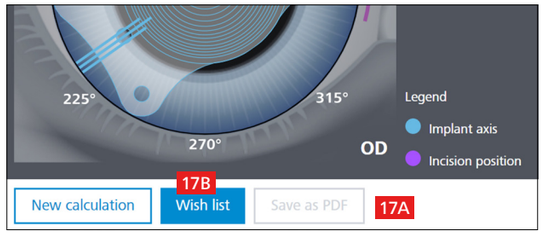
MV **M**ICS (Micro Incision Cataract Surgery), suitable for 1.8mm incision size & **V**iolet and blue filtering (yellow)

P Fully **P**reloaded in injector

PY Fully **P**reloaded in injector & **Y**ellow blue-light filtering

"-" No variant

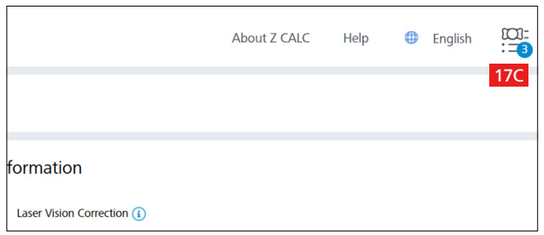
6. Navigate to the Wishlist/PDF-Printouts



17A Click on Save as PDF button to save the selected results as PDF directly from the calculation screen.

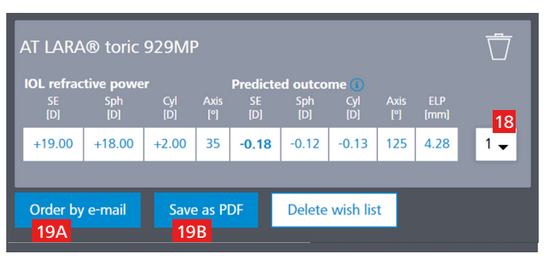
17B Click on wish list button at the bottom. This will lead you to the second screen, where you can select lenses for ordering or PDF-print-outs.

OR



17C Click on the wish list symbol in the right upper corner, which will lead you to the same screen as the wish list button at the bottom of the page.

7. Create PDF printouts for selected IOLs or order via e-mail



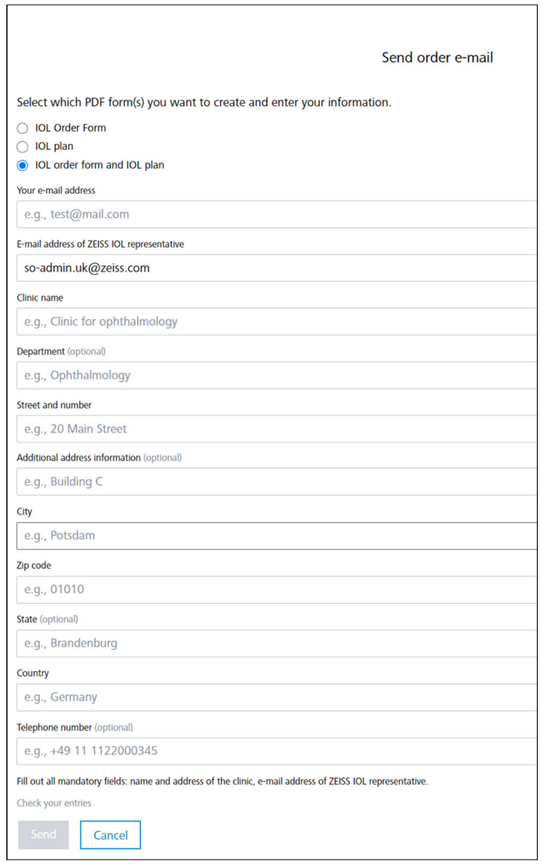
18 Select the desired quantity for the IOL.

19A Click "Order by E-Mail" (to directly send your order to the local ZEISS sales representative).

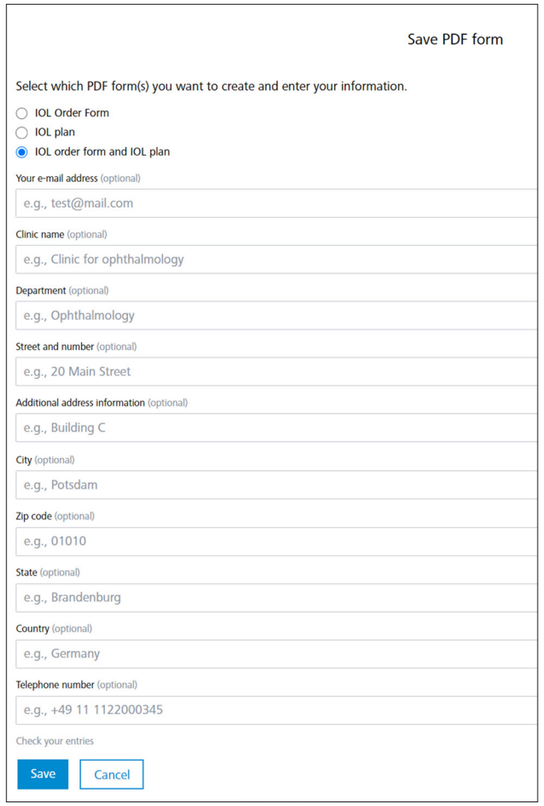
OR

19B Click "Save as PDF" to create a PDF with the calculation results and ordering information of the selected IOLs in the wish list.

8. Order by e-mail or create PDF printouts



For Ordering



For Printing

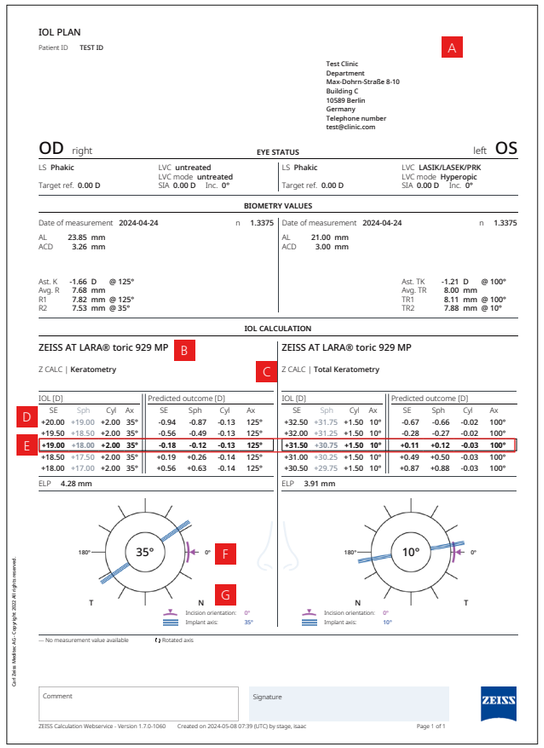
For Ordering:

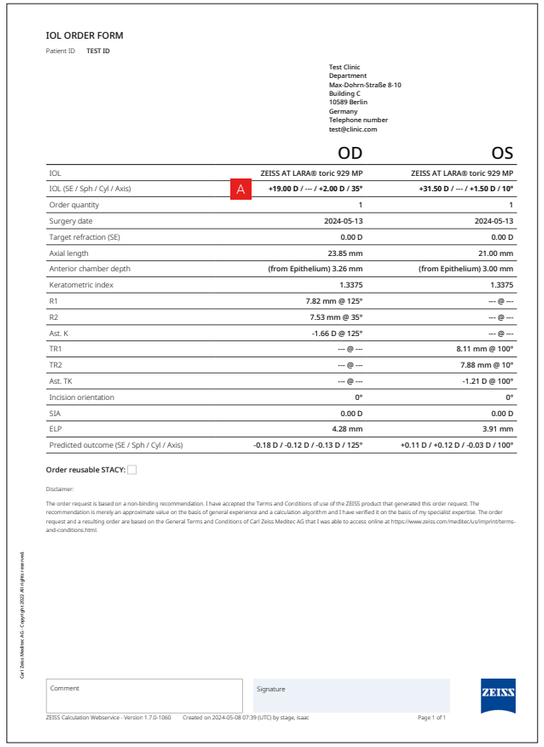
- Enter all the relevant details including clinic name, department, address, phone number and email address (your local ZEISS partner's email address is filled in automatically based on your country selection).
- By hitting the "Send" button, an email with your order is sent out to the local ZEISS business partner (automatically filled based on your country selection).

For Printing and/or manually faxing

- For saving as PDF, you don't need to enter your data (data entry is only required for direct ordering).
- Please just scroll down and click "Save", the PDFs will be created and open in a new tab window in your browser.

Note: Please ensure the pop-up blocker is deactivated in your browser. Otherwise please follow the instruction in the addendum: Pop-Up Blockers and how to deactivate**.**





A Clinic-specific information (Optional).

B Name and type of the lens.

C Formula and type of mesaurement (Keratometry or Total Keratometry).

D Labeled values on the product package of the calculated lenses are highlighted with bold font and not labeled ones greyed out.

E Selected lenses from the wishlist for OD and OS.

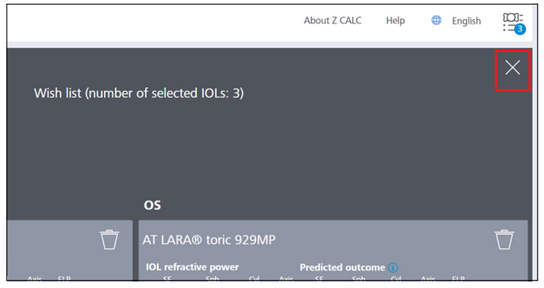
F Eye schematic with main incision position and implant axis for toric IOLs.

G Anatomical position.

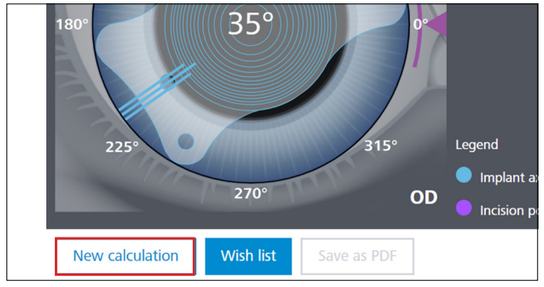
A Based on the labeling of the selected lens, ordering relevant values are displayed bold.

OD: *Oculus Dexter (right eye)*
OS: *Oculus Sinister (left eye)*
OU: *Oculus Uterque (both eyes)*
LS: *Lens state*
Target ref.: *Target refraction*
LVC: *Laser vision correction*
SIA: *Surgical induced astigmatism*
Inc: *Incision direction*
n: *Keratometric index*
AL: *Axial length*
ACD: *Anterior chamber depth*
Ast. K/ Ast. TK: *Astigmatism K/ TK*
Avg. R/ Avg. TR: *Average R/ TR*
K1 & K2: *Keratometry values*
TK1 & TK2: *Total Keratometry values*
SE: *Spherical equivalent*
Sph: *Sphere*
Cyl: *Cylinder*
Ax: *Axis*
ELP: *Effective lens position*

9. Start new calculation



- Close the wish list window by clicking the cross on the top right of the screen.
- Start a new calculation by clicking on the “New calculation” button. Please note, that all input data and the calculation results including the wish list, **will be deleted** when you click this button. If you only want to add another calculation to add to your wish list, do not click “New Calculation”.



10. Addendum

Pop-Up Blockers and how to deactivate

To download the IOL calculations/ IOL order forms, pop-ups must be allowed for the Z CALC page.
Please ensure to deactivate browser-based pop-up blockers, in case the pop-ups are blocked (PDF creation is suppressed).
This option can be found within the settings of the browser you are using.
In some browsers you see the blocking as a warning message and you can enable the option directly by clicking on the message.
It may then be necessary to start downloading the documents again.

Further information can be found on the respective homepages of the browser providers

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Z CALC 2.3

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